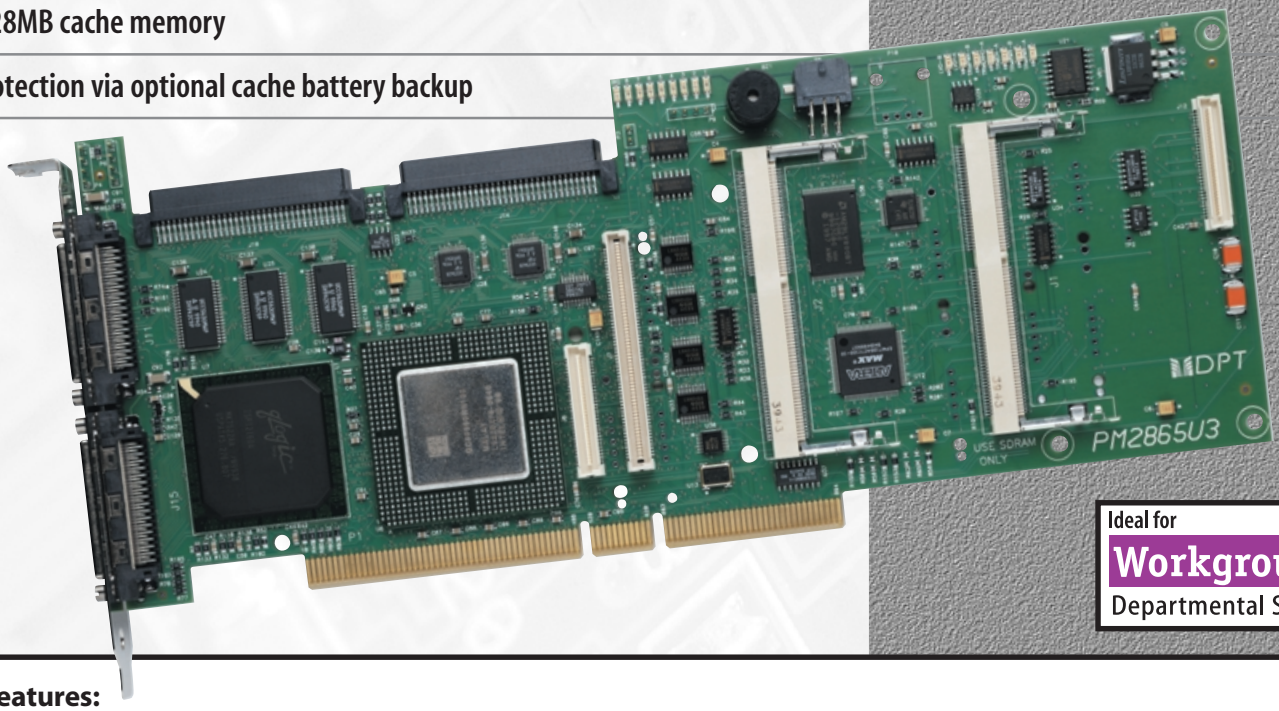
SMARTRAID V Century

PM2865U3

High Performance Ultra160 SCSI RAID Controller

Available with one, two, three or four Ultra160 SCSI Channels

- Up to 160MB/s data transfer rate
- 64-bit, 33MHz PCI host interface
- Intel® i960® RN 80 MIPS I/O processor for high performance
- Integrated hardware RAID 0, 1, 5, 0+1 and 0+5
- Supports Microsoft® Cluster Server (MSCS)
- Up to 128MB cache memory
- Data protection via optional cache battery backup



Ideal for **Workgroup and** Departmental Servers

Features:

- Includes 32MB ECC cache, upgradable to 128MB
- Fully I_2O® compliant
- Up to 160MB/s data transfer rate
- Controls SCSI-1, SCSI-2 and SCSI-3 devices
- Controls Ultra160, Ultra2, Ultra, and Fast SCSI devices
- Controls up to 15 SCSI devices per channel
- Low Voltage Differential (LVD) technology for up to 12 meter SCSI cable length
- Integrated hardware RAID 0, 1, 5, 0+1 and 0+5
- 2 DIMM sockets support up to 128MB of controller cache memory (DPT or industry-standard 144-pin ECC SDRAM SO-DIMMs)
- Expansion Modules add 1 or 2 additional Ultra160 SCSI channels
- PCI 2.2 compliant
- Intel i960 RN I/O processor for ultra-low host CPU utilization
- Dedicated SCSI RISC processor for maximum SCSI performance
- Audible disk drive failure alarm
- Very high-density (VHDCI) external SCSI connector allows 4 external SCSI channels from 1 slot
- Flash-upgradable firmware and BIOS
- Supports SAF-TE and SES for storage cabinet status monitoring
- Supports Microsoft Cluster Server (MSCS)
- Dynamic Array Expansion permits drives to be added on-the-fly to existing arrays
- Easy-to-use GUI storage management software
- BIOS-based device setup and RAID configuration utility
- Command Line Interface (CLI) utility for device status and configuration

OpenServer 5 WORKS WITH · UnixWare 7 WORKS WITH · Novell TESTED APPROVED · LINUX · Year 2000 Compliant

DPT Distributed Processing Technology®

PM2865U3 Technical Specifications

Expansion Modules

BB4060 Battery Backup Module adds battery backup capability for protecting data in cache memory for up to 72 hours (using a single 16MB SO-DIMM).

SX4065U3 and SX4065F Channel Expansion Modules add one (SX4065U3-1) or two (SX4065U3-2) additional Ultra160 SCSI channels to any SmartRAID VI SCSI controller, supporting up to 60 SCSI devices from a single PCI slot. Add one Fibre Channel port to any single channel SmartRAID VI controller with the SX4065F.

DM4070 ECC SDRAM SO-DIMMs provide 32MB (DM4070-32) or 64MB (DM4070-64) of high-speed disk cache for PM2865U3 controllers, plus ECC technology for data integrity. The PM2865U3 controller also accepts industry-standard 32MB or 64MB 144-pin SDRAM SO-DIMMs.

Storage Management Software

Storage Manager™ is a window into your storage system. This user-friendly, self-installing, GUI-based utility provides:

- Easy, point-and-click creation, deletion and maintenance of disk arrays
- Array diagnostics
- Event logging and notification
- I/O load monitoring
- Device identification, status and inventory
- Supports Windows® 95/98, Windows 2000, NT®, NetWare®, Linux, SCO® Unix®, UnixWare®, BSDi and FreeBSD
- Remote management of server storage
- Online help

SMOR (Storage Manager On ROM) is a BIOS-based set-up utility that allows you to quickly configure SmartRAID controllers and attached devices without having to boot an operating system. Features include:

- Device identification, status and inventory
- Configure controller hardware options
- Low-level formatting hard drives
- Create and delete disk arrays
- View and modify RAID configurations

DPTUTIL is a command line management utility that allows quick configuration and monitoring of SmartRAID VI controllers and attached devices.

- Supports Linux, FreeBSD, BSDi, SCO OpenServer 5, SCO UnixWare 7 and NetWare 5 operating systems

SCSI Features

SCSI Interface	Ultra160 SCSI, SPI-3, SCSI-3
Maximum SCSI Transfer Rate	160MB/s
SCSI Bus	16-bit with multi-mode SE/LVD termination
Number of SCSI Busses	1, 2, 3, or 4
Maximum Number SCSI Devices	15 per channel (maximum of 60 total)
External SCSI Connector(s)	68-pin Very High Density Cable Interconnect (VHDCI)
Internal SCSI Connector(s)	68-pin High Density

PCI Features

Host Interface	64-bit PCI 2.2 *(compatible with 32-bit PCI and PCI 2.1 systems)*
Maximum PCI Transfer Rate	264MB/s

Battery Backup Features

Battery Protection Period	72 hours with 16MB of cache
Battery Type	NiMH battery pack

Operating Environments

- Microsoft® Windows® NT® 4.0, Windows 2000, Win 95/98, SCO® 3.2.4.2, SCO OpenServer 5, UnixWare® 2.1.4.2, SCO UnixWare 7, NetWare® 4.11, NetWare 5, Linux* (2.0x and 2.2x kernels), FreeBSD, BSDi 4.1
- I_2O compliant
- Compatible with I_2O block storage or SCSI OSMs provided with Windows NT, SCO, NetWare

** Tested with Red Hat Linux 5.2, 6.0, 6.1 and SuSE Linux 6.1, 6.2*

Power Requirements

Voltage	5V ± 5%
Ripple and Noise	50mV peak-to-peak max
Current	2.0A typical (single channel)

Reliability

MTBF	>350,000 Hours

Agency Certifications

FCC, CE, UL, CSA, AUSTEL, SMA, VCCI

Complete Kit Contents

- PM2865U3 Ultra160 SCSI RAID Controller
- Ultra160 wide internal SCSI cable with multi-mode terminator supporting 4 SCSI devices
- Storage management software
- Device drivers
- User's Manual and Quick Install Guide

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Xtreme Performance